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(54) PARTICLE ANALYSER

(57) Abstract:

PURPOSE: To make it possible to judge the shift of an optical axis and the center axis of the flow of a sample liquid, by providing a detection means for detecting the light intensity distribution of transmitted light spread in a strip like form after the passage through a tubular laminar stream and a signal means for comparing and operating a plurality of the obtained output signals.

CONSTITUTION: Two optical fibers 9a, 9b are attached to a light blocking plate 6 so as to be made symmetric to an optical axis O to each other and photoelectric detectors 10a, 10b are respectively connected to the terminal ends of the optical fibers 9a, 9b. Because the beam intensity distribution of laser beam usually shows Gauss distribution, if shift is generated between the optical axis O and the center axis Z of a stream of tubular laminer flow, beam intensity measured values detected are different. Output signals from mthe photoelectric detectors 10a, 10b are compared in a comparing part and, if the compared result is out of a range of a set value, an alarm is issued by the ON-and-OFF of a lamp, a buzzer or sound.